|                | Index & Claims  |  |                |           |                |           |                             |               |                |          |                 | Application/Control No. |                   |              |        |               |            |                 |              |                     | Applicant(s)/Patent under |          |                |          |    |  |  |  |
|----------------|---|--|----------------|-----------|----------------|-----------|-----------------------------|---------------|----------------|----------|-----------------|-------------------------|-------------------|--------------|--------|---------------|------------|-----------------|--------------|---------------------|---------------------------|----------|----------------|----------|----|--|--|--|
| Index f Claims |   |  |                |           |                |           |                             |               |                |          | 40/504 044      |                         |                   |              |        |               |            |                 |              |                     | R examination             |          |                |          |    |  |  |  |
|                |   |  |                |           |                |           |                             |               |                |          | 10/531,944      |                         |                   |              |        |               |            |                 |              | ARGYROPOULOS ET AL. |                           |          |                |          |    |  |  |  |
|                |   |  |                |           |                |           |                             |               |                |          | Examiner        |                         |                   |              |        |               |            |                 |              | Art Unit            |                           |          |                |          |    |  |  |  |
| 1 1841         | i teriti grit eliri situ ilisi tibi gili sili sili sili |  |                |           |                |           |                             |               |                |          |                 |                         | Patrick D. Niland |              |        |               |            |                 |              |                     |                           |          |                |          |    |  |  |  |
|                |   |  |                |           |                |           |                             |               |                |          |                 | _                       | _                 |              |        |               |            | _               |              |                     |                           |          | _              |          |    |  |  |  |
|                | 4   | √ Rejected                                       |                |           | _              | (1        | (Through numer<br>Cancelled |               |                | rai)     |                 | N                       |                   | Nor          | n-Elec | ted           |            |                 | App al       |                     |                           |          |                |          |    |  |  |  |
|                | -   | <del>                                     </del> |                |           | ╟┼             | Castelled |                             |               | 100            |          | -1              | <del> </del>            |                   |              |        |               |            | A               | <del> </del> |                     |                           | 4        |                |          |    |  |  |  |
|                | = Allowed   |  |                |           | +              |           | Restricted                  |               |                |          |                 | -   1                   | ı                 | Interference |        |               | 0          | Objected        |              |                     |                           |          |                |          |    |  |  |  |
|                | <u> </u>  |  |                |           | ш              |           |                             |               |                |          |                 | L                       |                   |              |        |               | j          | ш               |              |                     |                           |          |                |          |    |  |  |  |
| Claim          | Date  |  |                |           |                | 7         | Claim                       |               |                |          | D.              | ate                     |                   |              |        |               | laim       |                 | Date         |                     |                           |          |                | _        |    |  |  |  |
| Final          | 8   |  |                |           |                |           | - m                         | Original      |                |          |                 |                         |                   | 1            |        | - I           | <u> </u>   |                 |              |                     |                           |          |                |          |    |  |  |  |
| Final          | 3/8/06  |  |                |           |                |           | Final                       | Orig          |                |          |                 |                         |                   |              |        | Final         | Original   |                 |              |                     |                           |          |                |          |    |  |  |  |
| 3 1 .          | Н   | +  | ++             | +         | Н              | -         |                             | 51            | +              | +        | $\vdash \vdash$ | +                       | +                 | 1            | Н      | <b>—</b>      | 101        | $\sqcup$        | $\perp$      | _                   | Ш                         |          | 4              |          |    |  |  |  |
| 9              | Y   |  | 士士             | $\perp$   | 世              | 1         |                             | 52            |                |          |                 |                         | $\pm$             | +            | H      | $\vdash$      | 102        | Н               | +            | +                   | Н                         | +        | +              | +        | l  |  |  |  |
| 3              | W   | ++   | +              | +         | 1              | 4         |                             | 53<br>54      |                | $\Box$   |                 | $\perp$                 | 1                 |              | $\Box$ |               | 103        | П               | $\dashv$     | T                   | П                         | $\Box$   | $\blacksquare$ |          |    |  |  |  |
| 5              | Н   | +++  | ++             | Н         | $\vdash$       | ┨         | $\vdash$                    | 55            | +              | Н        | $\dashv$        | +                       | ╁                 | ╁            | H      | -             | 104        | Н               | +            | +                   | ╀┤                        | $\dashv$ | +              | +        |    |  |  |  |
| 6              | П   | $\Box$   |                | $\Box$    | $\Box$         | ]         |                             | 56            | $\blacksquare$ | П        |                 | $\perp$                 | Ι                 | 工            |        |               | 106        |                 | 士            | 土                   |                           |          | 土              |          |    |  |  |  |
| 8              | Н   | -1   | ++             | +         |                | ┨         | $\vdash$                    | 57<br>58      | +              | H        | +               | +                       | ╀                 | ╀            | H      | -             | 107        | H               | $\dashv$     | +                   |                           | $\dashv$ | -[             | $\Box$   |    |  |  |  |
| 9              | Ш   |  |                |           |                | 1         |                             | 59            |                |          |                 | $\pm$                   | 士                 |              | Н      | -             | 109        | Н               | +            | +-                  | Н                         | +        | +              | +        |    |  |  |  |
| 10             | Н   | +  | ++             | +         |                | 4         | <u> </u>                    | 60<br>61      | +              | -        | $\Box$          | 4                       | Ţ                 |              |        |               | 110        |                 | $\Box$       | I                   | П                         | コ        |                | $\Box$   |    |  |  |  |
| ير ا           | Ш   | +  | ++             | +         | +              | ┨         |                             | 62            | +              | +        | +               | +                       | ╀                 | +            | Н      | -             | 111        | Н               | +            | ╫                   | Н                         | $\dashv$ | +              | +        | Ι. |  |  |  |
| 13             | J   | $\Box$   |                | П         |                | ]         |                             | 63            | 1              | П        |                 |                         | 工                 |              |        |               | 113        |                 | 土            | 土                   |                           | 士        | 土              |          |    |  |  |  |
| 14             |   | +  | ++             | H         | +              | -         | -                           | 64<br>65      | +              | +        | -               | ╀                       | +                 | $\vdash$     | Н      | _             | 114<br>115 | Н               | 4            | +                   |                           | $\perp$  |                |          |    |  |  |  |
| (16)           |   |  |                | Ш         |                | t         |                             | <del>56</del> | $\pm$          | Ш        |                 | +                       | 十                 | †            | Н      | -             | 116        | Н               | +            | +                   | Н                         | $\dashv$ | +              | H        |    |  |  |  |
| 18             | Н   | $\dashv$   | +              | $\square$ | -              | 7         |                             | 67<br>68      | $\perp$        | П        | $\Box$          | T                       | T                 |              |        |               | 117        | П               | 7            | $\bot$              |                           | $\dashv$ | 1              |          |    |  |  |  |
| 19             | Н   | +  | ++             | H         | +              | 1         |                             | 69            | ╫              | ╂┨       | $\dashv$        | ┰                       | ╁                 | $\vdash$     | Н      | $\vdash$      | 118<br>119 | Н               | +            | +                   | Н                         | +        | +              | +        |    |  |  |  |
| 20             | П   | $\Box$   | $\Box$         | $\Box$    |                | ]         |                             | 70            |                | П        |                 | 丰                       | I                 |              |        |               | 120        |                 | 土            |                     |                           | 士        | 土              | Ш        |    |  |  |  |
| 21 22          | H   | +  | ╅┼             | ┼┤        | +              | ┥         | $\vdash$                    | 71<br>72      | +              | ╂┥       | $\dashv$        | +                       | ╀╌                | -            | Н      |               | 121        | H               | +            | +                   | Н                         | _        | _              | $\Box$   |    |  |  |  |
| 23             |   |  |                | $\Box$    |                | 1         |                             | 73            | 土              | $\Box$   | 1               | 士                       | 上                 |              | $\Box$ |               | 123        |                 | +            | $\pm$               | H                         | $\dashv$ | +              | Н        |    |  |  |  |
| 24<br>25       | Н   | ++   | +-             | +         | +              | 4         | $\vdash$                    | 74<br>75      | +              | $\sqcup$ | 4               | 4                       | L                 |              | П      |               | 124        |                 | $\perp$      | $\bot$              | П                         | $\Box$   | T              | $\Box$   |    |  |  |  |
| 26             | Н   | +  |                | Н         | $\pm$          | 1         | H                           | 76            | +              | H        | +               | +                       | ╁                 | Н            | Н      | -             | 125<br>126 | $\vdash$        | +            | +                   | Н                         | +        | +              | +        |    |  |  |  |
| 27             | Ш   | +  |                | П         | $\top$         | ]         |                             | 77            | $\Box$         | П        | $\Box$          | I                       | I                 |              |        |               | 127        |                 |              | 土                   |                           | 工        |                |          |    |  |  |  |
| 28<br>29       | H   | +  | +              | ++        | +              | ┨         | ├─┤                         | 78<br>79      | ╁              | Н        | +               | +                       | ╀                 | $\vdash$     | Н      | ⊢             | 128<br>129 | $\vdash \vdash$ | +            | +-                  | Н                         | +        | -              | $\sqcup$ |    |  |  |  |
| 30             |   |  |                | П         | 土              | 1         |                             | 80            |                | П        | 土               | 1                       | 士                 |              | H      |               | 130        | H               | +            | 十                   | Н                         | $\dashv$ | ╅              | Н        |    |  |  |  |
| 31             | Н   | ++   | ++             | ╢         | +              | 4         | $\vdash$                    | 81<br>82      | +              | H        | $\perp$         | +                       | F                 |              | П      | $\sqsubseteq$ | 131        | $\Box$          | $\perp$      | I                   | $\square$                 | 4        | T              | $\Box$   |    |  |  |  |
| 33             |   | -1-1   |                |           | +              | 1         | $\vdash$                    | 83            | +              | H        | +               | ╁                       | 十                 | Н            | Н      | $\vdash$      | 132<br>133 | $\vdash$        | +            | ╫                   | Н                         | +        | +              | Н        |    |  |  |  |
| 34<br>35       |   | $\Box$   | $\blacksquare$ | $\square$ | 4              | 7         |                             | 84            | 1              | П        |                 | 1                       | I                 | $\Box$       |        |               | 134        |                 | $\perp$      |                     |                           | $\perp$  | 土              | 口        |    |  |  |  |
| 38             | Н   | ++   | ++             | ┨┪        | +              | $\dashv$  | $\vdash\vdash$              | 85<br>86      | +              | Н        | +               | ╂                       | ╀                 | Н            | Н      | $\vdash$      | 135<br>136 | $\dashv$        | +            | +-                  | Н                         | +        | +              | ┦┤       |    |  |  |  |
| 37             |   | $\Box$   | $\blacksquare$ | $\Box$    |                | 1         |                             | 87            |                |          | 士               | 土                       | 上                 |              |        |               | 137        |                 | İ            | 上                   |                           | 士        | 士              | Ħ        |    |  |  |  |
| 38             | $\dashv$  | ++   | ++             | H         | +              | -         | $\vdash$                    | 88<br>89      | +              | +4       |                 | +                       | +                 | Н            | Н      | L.            | 138<br>139 |                 | $\bot$       | $\perp$             | П                         | $\Box$   | T              | П        |    |  |  |  |
| 40             |   |  |                | $\Box$    |                | 1         |                             | 90            | 土              | $\Box$   | $\top$          | 十                       | ╁                 | Н            | Н      | -             | 140        | $\dashv$        | ╅            | +                   | H                         | +        | +              | Н        |    |  |  |  |
| 41             | Ц   | +  | $\blacksquare$ | П         | $\perp$        | ]         |                             | 91            | T              | П        | 1               | T                       | L                 |              |        |               | 141        |                 | $\bot$       | 二                   |                           | ユ        | 1              | 口        |    |  |  |  |
| 43             | +   | ++   | ++-            | H         | +              | ┨         | $\vdash$                    | 92<br>93      | +              | ╁┼       | +               | ╫                       | ╁                 | Н            | H      | $\vdash$      | 142<br>143 | $\dashv$        | +            | +                   | ╌┤                        | +        | +-             | Н        |    |  |  |  |
| 44             | $\Box$  | $\Box$   |                | П         | #              | 1         |                             | 94            | #              |          |                 | 土                       | L                 |              |        |               | 144        |                 |              | 土                   |                           | 1        |                | 口        |    |  |  |  |
| 45<br>46       | -   | ++   | ++             | ╫         | +              | -         | $\vdash \vdash \vdash$      | 95<br>96      | +              | H        | +               | +                       | F                 | П            | Ш      |               | 145<br>146 | $\dashv$        | Ŧ            | F                   | П                         | Ŧ        | F              | П        |    |  |  |  |
| 47             | $\Box$  | 廿  | 11             | Ц         |                | 1         |                             | 97            | 士              |          | 士               | 士                       |                   | Н            | $\Box$ |               | 147        | $\dashv$        | _            | +                   | H                         | +        | +              | +        |    |  |  |  |
| 48<br>49       | $\dashv$  | ++   | +-             | $\prod$   | <del>-</del> F | 4         |                             | 98            | T              | H        | $\bot$          | F                       | F                 | П            |        |               | 148        | $\Box$          | 1            | T                   | 口                         | 1        | $\bot$         | 口        |    |  |  |  |
| 50             |   | 11   |                | 廿         | _              | ]         |                             | 99<br>100     | _              | ╁┼       | +               | +                       | $\vdash$          | Н            | H      |               | 149<br>150 | $\dashv$        | +            | +-                  | $\vdash \vdash$           | +        | +              | H        |    |  |  |  |
|                |   |  |                |           |                | _         |                             |               |                |          |                 | _                       |                   |              | _      |               |            |                 | •            |                     |                           |          |                | ىــ      |    |  |  |  |